NATIONAL LIBRARY of MEDICINE

# NEWS

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## Integrated Library System— Version 2.0

Version 2.0 of the Integrated Library System (ILS) is now available for a licensing fee of $2,700 (or $700 for libraries having access to Version 1.0) from the National Technical Information Service. The ILS, described in the January and September 1980 issues of the *News*, is a software program designed to enable libraries of all kinds to automate many of their important functions. It was developed by the Computer Technology Branch of NLM's Lister Hill National Center for Biomedical Communications.

Version 1.0 of the ILS included Master Bibliographic File, Circulation Subsystem, Searching Capabilities on the Online Catalog, and Serials Check-in. Version 2.0 includes the following additional features: Public Catalog Access, Generalized Patron Registration, Authority Files Creation and Maintenance, Generalized Terminal Handler, and a Batch Load of the Master Bibliographic File. In addition, the Online Users Manual entries have been extended to include HELP frames for all operating modules.

The ILS Public Catalog Access Subsystem includes both dictionary and divided catalog entries. Public Catalog searchers are linked to MARC-compatible authority files. Authority file entries are initially created from Master Bibliographic File records. Provision is also made for adding cross references to the local authority files from appropriate source authorities such as LCSH (Library of Congress Subject Headings) or

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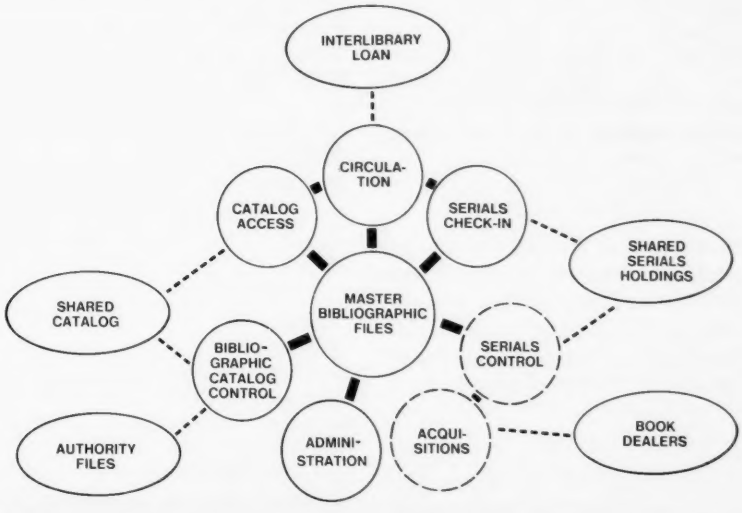


**This diagram illustrates the current features of the Integrated Library System, plus future enhancements (indicated by dashes).**

NATIONAL LIBRARY of MEDICINE
NEWS

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LC name authority files. The Generalized Patron Registration Subsystem allows librarians to define different patron types and associated data elements.

There is a growing body of literature on the ILS. The following document is particularly timely and comprehensive; other sources of information are listed below.

*Goldstein, CM, et al: *The Integrated Library System: System Overview*, July 1981. PB81-188039. $6.50. (Available from the National Technical Information Service, Springfield, VA 22161.)

For additional information, contact either the Office of Data Services, NTIS (703) 487-4807, or the Computer Technology Branch, Lister Hill Center, National Library of Medicine, Bethesda, MD 20209.

* * * * *

*Anderson, SE and Dick, RS: *A Guide to Using the Bibliographic Features of the ILS.* May 1980. PB80-20266. $6.50. (NTIS)

Egyhazy, CJ and Lovelace, JS: *Machine-Readable Identification Systems for Library Materials.* Nov. 1977. PB-282499. $9.50. (NTIS)

*Goldstein, CM and Ford, WH: The user-control interface. *Online Review*, Vol. 2, No. 3, 1978.

*Anderson, SE and Dick, RS: *The Integrated Library System, User Manuals: Circulation Subsystem and General Functions.* Sept. 1980. PB 81-100273. $15.50. (NTIS) (To be superseded by complete ILS manual, fall 1981; estimated price: $18.50.)

*King, S and Dick, RS: *A User's Guide to Maintaining the Master Bibliographic File of the ILS.* April 1980. PB80-202674. $8. (NTIS)

*Lovelace, J: *Conversion Plan for the Army Library, Pentagon.* Nov. 1978. PB81-128357. $9.50. (NTIS)

*Lovelace, J: *Reports for the Integrated Library System (ILS).* Jan. 1979. PB81-128340. $9.50. (NTIS)

*These reports furnished as part of the $2,700 licensing fee.

## Personnel Notes

**Ben Erdman**, former Deputy Director of NLM's Lister Hill National Center for Biomedical Communications, left the Library in August to return to his former employer, the Defense Communications Agency (DCA). In his new position he will be Technical Director of the World Wide Military Command and Control System, ADP Technical Support Directorate, Command and Control Technical Center. Mr. Erdman came to NLM in 1974 from DCA. As an expert in computers and communications, he played a key role, not only in developing the research and development programs of the Lister Hill Center but also in many high-level NLM, departmental and interdepartmental committees, including a six-month assignment to the MEDLARS III task force.

Other staff changes are listed below.

**Gains**

- Alice Devierno, Technical Information Specialist, National Medical Audiovisual Center
- Norbert Page, Veterinary Toxicologist, Specialized Information Services

**Losses**

- Richard Dick, Supervisory Technical Information Specialist, Bibliographic Services Division
- Dianne McCutcheon, Librarian, National Medical Audiovisual Center
- Roger Metcalf, Computer Specialist, Lister Hill Center
- Elizabeth Payne, Computer Specialist, Lister Hill Center

# Toxicology Information Response Center: 1971-1981

This month marks the tenth anniversary of the creation of the Toxicology Information Response Center (TIRC). TIRC—the result of a successful collaboration between NLM and the Oak Ridge National Laboratory—was established by the Library's Toxicology Information Program to collect, analyze, and disseminate toxicology-related information. Sponsored by NLM since September 1981, the Center is part of the ORNL's Information Center Complex in Oak Ridge, Tennessee.

TIRC was originally established to respond to questions on the toxicology of pesticides and other potentially harmful environmental chemicals. Information concerning these agents was, and still is, often difficult to obtain and evaluate. TIRC's programs expanded during the ten-year period to include information on drugs, industrial chemicals, food additives, chemicals related to energy generation, and other aspects of the broad field of toxicology.

Concurrent with fulfilling search requests on demand, the TIRC staff engages in projects funded by interagency agreements between NLM and other government agencies. These agreements have resulted in products ranging in complexity from a simple computer-generated bibliography to an extensive published overview on a particular subject (see "Publication Notes," p. 5). The Center also indexes and abstracts the scientific literature for special databases; one example is an epidemiology database containing references to food additives.

During the past ten years, TIRC has gained a national and international reputation for pertinent information concisely assembled and quickly delivered. TIRC's user community ranges from lawyers, physicians, and poison control centers to the California state government, and from a technical institute in Mexico to a toxicology information center in Switzerland.

**TIRC's staff (from left): Sharon Mashburn, Nancy Dailey, Jennetta Hutson, Susan Winslow (Director), Janis Pruett, Helen Warren, and James Hall. (Not pictured: Jackie Miles and Brenda French.)**

The Center offers, on a cost-recovery basis, a variety of services tailored to a user's specific needs. TIRC's multidisciplinary staff synthesizes retrieved information into a variety of formats to meet the user's requirements: searches of computerized data systems, specific published toxicology data, individualized literature searches, and a complete range of bibliographies, summaries, and overviews.

For more details contact:

Toxicology Information Response Center
Oak Ridge National Laboratory
P.O. Box X, Building 2024
Oak Ridge, TN 37830
(615) 576-1743

## NLM in the Literature

Several articles of interest to *News* readers have recently come to our attention. They each deal in part with NLM products and services which have proved useful to the biomedical community. "How Community Doctors Can Have Easy Access to the Medical Literature," by **Frances Groen** and **Audrey Kerr**, discusses such NLM publications and services as *Index Medicus, FAMLI (Family Medicine Literature Index),* and MEDLINE. It appears in the *Canadian Medical Association Journal* (June 15, 1981, Vol. 124, pp. 1628-1635). "Rehabilitation Literature: A Guide to Selection Materials," by **Richard E. Bopp and Francesca A. Anstine**, includes information on CATLINE, the *NLM Current Catalog*, and AVLINE as tools in selecting print and nonprint items related to rehabilitation of physically handicapped persons. The article appears in the July-/September 1981 issue of *Library Resources and Technical Services* (Vol. 25, ,No. 3, pp. 225-348).

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Other NLM-related articles, cited in the June-September MEDLINE are listed below.

**Eckert WG:** Federal government resources for the forensic scientist. Am J. Forensic Med Pathol 1980 Mar;1(1):91-4

**Hakulinen E:** Thomsen's disease, Sjogren syndrome—om nordiska bidrag till medicinsk terminologi. Nord Med 1981;96(4):121-3 **(Swe)**

**Holden C:** Library of medicine versus private enterprise [news] Science 1981 Jun 5; 212(4499):125-6

**Kolner SJ:** Improving the MEDLARS search interview: a checklist approach. Bull Med Libr Assoc 1981 Jan;69(1):26-33

**Summers GV:** Medical school faculty and their libraries: an evaluative study. J Med Educ 1981 May;56(5):440-2

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We invite *News* readers to let us know of any other articles they might come across, particularly those in journals not indexed for MEDLINE, in which NLM (or its publications and services) is discussed. Copies of such articles may be sent to:

Editor, NLM News
Office of Inquiries
National Library of Medicine
Bethesda, MD 20209

## Publications Notes

**NMAC Catalog** and **NLM Classification:** In case you missed our notice in the June-July *News*, we are repeating the ordering information for these two recently revised NLM publications. They are both available from the Superintendent of Documents (U.S.G.P.O., Washington, DC 20402). The *National Medical Audiovisual Center Catalog: Films for the Health Sciences, 1981* is available for $7 ($8.75 foreign); S/N 017-052-00221-0. The *National Library of Medicine Classification, 4th Edition, Revised 1981*, sells for $14 ($17.50 foreign); S/N 017-052-00222-8.

**MeSH Publications from NTIS:** In addition to the regular *Medical Subject Headings* published as part two of the January issue of *Index Medicus*, the Library also produces MeSH tools designed for indexers, catalogers, and online searchers. They are sold by the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

- *Medical Subject Headings, Annotated Alphabetic List, 1982.* PB81-227480. $17 ($3.50 microfiche). Includes MeSH terms, cross references, geographic headings, non-MeSH terms, check tags, tree numbers, and notes for online users, catalogers, and indexers.

- *Medical Subject Headings, Tree Structures, 1982.* PB81-227472. $12 ($3.50 microfiche). All headings are arranged in a hierarchical manner showing relationships between broader and narrower terms.

- *Permuted Medical Subject Headings, 1982.* PB81-227464. $12 ($3.50 microfiche). A computer-generated display of all terms in the alphabetic list of Medical Subject Headings for 1982, as well as citation type, check tag, and geographic descriptors in the *Annotated Alphabetic MeSH*, 1982. Permuted MeSH takes each significant word that appears in each MeSH term and then lists all the MeSH terms in which that word appears.

- *Technical Notes: MEDLARS Indexing Instructions, Tumor Key Supplement, 1982.* PB81-242208. $6.50 ($3.50 microfiche). This indexing guide, designed primarily for MEDLARS indexers and searchers, is intended as a guide to the correct MeSH term for various histological types of tumor and cancer. This recent edition of the Supplement supersedes PB81-134553 (*News*, March-April 1981), containing changes to conform to the 1982 *MeSH*.

**Current Catalog Cumulation** and **Index of NLM Serial Titles:** Recent Government-wide budget cutbacks affecting publications have forced the Library to eliminate several titles which it had originally planned to produce. The *National Library of Medicine Current Catalog, 1976-1980*, will not be published by the Library in hard-copy format although it may appear in early 1982 in microfiche. The *Index of NLM Serial Titles*, which has been published annually since 1979,

has been converted to biennial publication and will not appear in 1982.

**New Literature Searches:** Four new titles in the 1981 series of NLM Literature Searches may now be requested from the Library's Reference Section (see below). Literature Searches are printed bibliographies produced through MEDLINE on subjects of current interest. They are available without charge. (A complete list of titles appears in each issue of *Index Medicus* and *Abridged Index Medicus*.) When requesting Literature Searches, please include title and number, enclose a self-addressed gummed label, and mail to:

Literature Search Program
Reference Section
National Library of Medicine
Bethesda, Maryland 20209

LS 81-5 *Percutaneous transluminal angioplasty.* January 1979 through July 1981. 145 citations.

LS 81-6 *Sudden infant death syndrome.* January 1976 through August 1981. 395 citations.

LS 81-7 *Lead exposure in children.* January 1977 throuh July 1981. 354 citations.

LS 81-8 *Foreign medical graduates in the United States.* August 1979 through August 1981. 100 citations.

**Toxicity of Vanadium Compounds: A Bibliography with Abstracts 1965-1980:** This report was produced primarily because of concern for the effects of potential exposure to vanadium compounds associated with synthetic fuel processes. The 261 references each contains a citation as well as an abstract where available. A title index and chemical name index are also provided. The 100-page bibliography (NLM/TIRC-81/1) was prepared by the NLM-sponsored Toxicology Information Response Center, and is available for $15 postpaid from the Federation of American Societies for Experimental Biology (FASEB), 9650 Rockville Pike, Bethesda, MD 20014. Further information on these and the first four bibliographies in the series is available from FASEB (see also *News*, March and September 1980, and March-April 1981).

**Species-Specific Potential of Invertebrates for Toxicological Research:** A limited number of copies of this 1980 publication by **Hans E. Kaiser**, D.Sc. (Department of Pathology, University of Maryland) are available through NLM's Toxicology Information Program, Specialized Information Services. This pioneering scientific review offers an evaluation of invertebrate animals and their role as experimental subjects for investigations in the fields of pathology, toxicology, pharmacology, and immunology. For a complimentary copy, write to: Dr. Arthur A. Wykes, Specialized Information Services, Lister Hill Center, Room 3N-303, National Library of Medicine, Bethesda, MD 20209.

## New Acquisitions in the History of Medicine

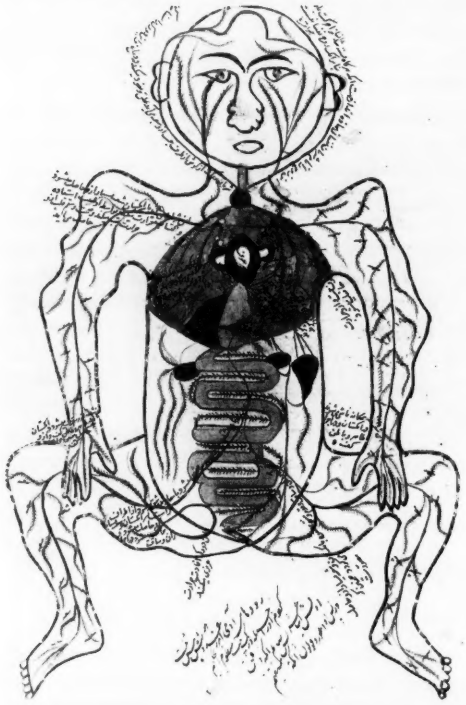
The Library's holdings of 19th century medical works are so rich that it is rare to find anything that might be called a "standard" medical work that is not in the collection. Recently two were added: *De l'ataxie locomotrice d'origine syphilitique* (Paris, 1882), by Alfred Fournier (1832-1914); and *Elemente der Psychiatrik* (Breslau, 1855) by Dietrich Georg Kieser (1779-1862). Both authors are already liberally represented in NLM's catalog, neither work is especially rare, and both might reasonably be expected—assumed even—to be in the Library, but they were not. Of the two, Fournier is better known, having been a leading French syphilographer. A number of his works were translated into English. Kieser is of sufficient importance to have been the subject of a recent biography.

Also well represented in the Library's collections are the works of Boerhaave, Haller, and Stahl, three important eighteenth century men. Nevertheless we have recently added to our holdings of all three.

New manuscript acquisitions include 61 cartons of the papers of Dr. **Julius Richmond** which antedate his appointment as Assistant Secretary for Health, DHHS, and a collection of material from the family of the late **Charles F. Gell**, USN, who had a distinguished career in aerospace medicine. Dr. **Harry Dowling**, who has been an NLM scholar-in-residence, has also given his papers to the Library.

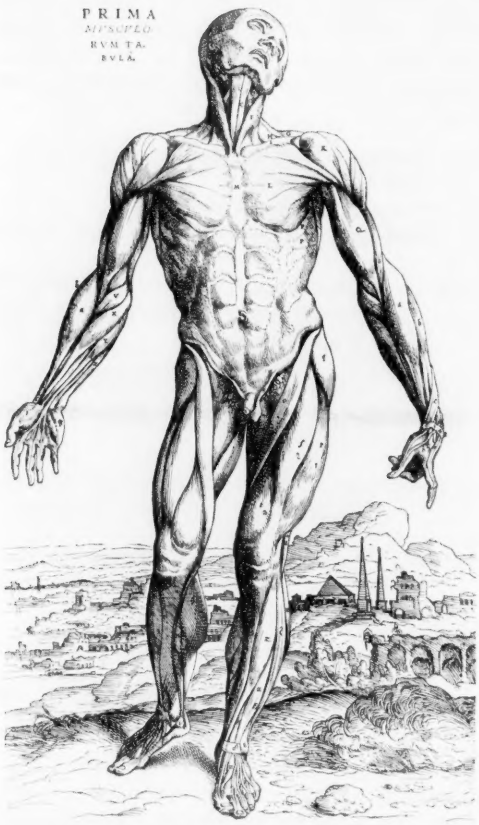
# The Evolution of Anatomic Illustration

Now on display in the National Library of Medicine's front lobby is a new exhibit titled "The Evolution of Anatomic Illustration." Prepared primarily from the collection of NLM's History of Medicine Division, the exhibit presents samples from the early schematic and traditional forms from antiquity to scanning electron micrography and computerized tomography of the modern era. The earliest anatomic illustration on display is a schematic figure depicting the arterial system, found in a 15th century Persian manuscript.



**A schematic figure depicting the arterial system, from a 15th century Persian manuscript entitled** *Tashrih Al-Badan* **(Anatomy of the Body).**

Samples of elementary illustrations from the pre-Vesalian anatomists Johannes Peyligk and Magnus Hundt are compared to the more refined drawings found in the publications by Jacopo Berengario and Johannes Dryander, which also preceded the *Fabrica* of Vesalius. Two highlights of the exhibit are a display of some of the magnificent anatomical drawings of Leonardo da Vinci, recently published from the collection of Her Majesty the Queen, at Windsor Castle, and the monumental *De humani corporis fabrica* of Andreas Vesalius, first published in 1543.



**One of six muscle plates on display from Vesalius'** *De humani corporis fabrica* **(1543).**

The exhibit also features examples of the great 17th and 18th century anatomical atlases with their impressive copperplate engravings. The first colored anatomic plate, a woodcut, is found in Gaspero Aselli's work on the lacteal vessels published in 1627. Early colored copperplate engravings by Le Blon and Ladmiral are also displayed in reproduction.

More recent anatomic texts on display include the first English edition of Henry Gray's *Anatomy, Descriptive and Surgical* (1858), and the classic texts by Werner Spalteholz and Johannes Sobotta, which were very popular in the early 20th century. Samples from the work of the fine medical illustrators Max Brödel, Tom Jones, and Frank Netter are also in the exhibit.

Finally, a sampling of more recent developments in "anatomic illustration" are displayed in the form of scanning electron micrographs, computerized tomographic scans, and the mapping of metabolic pathways.

**Scanning electron micrograph of a breast cancer cell. Original magnification: x3000.**

The exhibit will be in the lobby of the National Library of Medicine through January 8, 1982.

## Recent P.L. 480-Funded Publications

The Library's Special Foreign Currency Program, authorized under Public Law 480, provides limited support for the preparation of analytic critical reviews and biomedical monographs, secondary tools, scholarly research projects in the history of medicine, and support for the English-language translation and publication of selected foreign monographs in the health sciences. Administered by NLM's Extramural Programs, the P.L.480 program sponsors projects in India, Yugoslavia, Egypt, Poland, Israel, and Pakistan.

Recent studies published under this program are listed below. (*Note:* these are not distributed by NLM, but are available only from the publishers.)

Durst, Arie L. General Surgery, *Israel Journal of Medical Sciences*, Vol. 16, No. 9-10, September-October 1980, pp. 625-742.

Hoogstraal, Harry. *Bibliography of Ticks and Tickborne Diseases, Volume 6: From Homer (About 800 B.C.) to 31 December 1979.* Cairo, Egypt: United States Naval Medical Research Unit Number Three (NAMRU-3), July 1981, 407 pp.

Iskandar, Albert Z. "Another Fragment from the Autograph of Ibn Al-Tilmidh's Marginal Commentary on Ibn Sina's Canon of Medicine," *Bulletin of the School of Oriental and African Studies, University of London*, Vol. XLIV, Part 2, 1981. pp. 252-261.

Osetowska, Ewa. *Tissue Neuropathology of Viral and Allergic Encephalitides.* Warsaw, Poland: Foreign Scientific Publications Department of the National Center for Scientific, Technical and Economic Information, 1980. 318 pp.

Rademaker, G.G.J. *The Physiology of Standing.* Minneapolis: University of Minnesota Press, 1980. 681 pp.

Rudowski, Witold J. "Major Surgery in Haemophilia (Moynihan Lecture, 1980)," *Annals of the Royal College of Surgeons of England*, Vol. 63, 1981. pp. 111-117.

_____ . "Recent Advances in Burn Research and Therapy," *Journal of the Irish Colleges of Physicians and Surgeons*, Vol. 10, No. 2, October 1980. pp. 63-70.

Sharon, Nathan and Lis, Halina. "Glycoproteins." In: *The Proteins*, Vol. 5. New York: Academic Press, 1980. 107 pp.

Vikhert, Anatolii, and Zhdanov, Valentin. *The Effects of Various Diseases on the Development of Atherosclerosis.* N.Y.: Pergamon Press, 1981, 190 pp.

## Serial Gap List

NLM regularly solicits the help of the medical library community in filling gaps in its serial collections. If you can provide any of these items we would be most grateful. Please address them to:

National Library of Medicine
TSD-GAPS
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*Advances in Chromotography* 1970-1972
*Advances in Experimental Medicine and Biology* 5: 2, 194-; 37A: 1972; 121: 1979
*Analytical Biochemistry* 23: 1, 1968; 91: 1-2, 1978
*Biochemical Psychiatry* 9: 2, 10, 1974
*Biochemical Preparations* Nos. 14-22, 1972-1980
*Cancer* 13: 3-4, 1960; 14: 13, 1961; 17: 1, 1965; 19: 7, 1967; 26: 12, 1974
*Clinical Pediatrics* 7: 7-11, 1968
*Contemporary Surgery* 4: 6, 1974; 14: 6, 1979; 15: 2-3, 1979
*Current Topics in Membranes and Transport* No. 10, 1978
*Journal of Behavioral Assessment* 2: 2, 1980
*Journal of Bioenergetics and Biomembranes* 11: 5,6, 1979
*Journal of Clinical Endocrinology and Metabolism* 46: 4-6, 1978
*Journal of Counseling Psychology* 4: 2, 1957
*Journal of Dairy Science* 60: Supl., 1977
*Journal of Dialysis* 3: 4, 1979
*Journal of Evolutionary Biochemistry and Physiology* 13: 3-4, 1977; 16: 3,1980
*Medical World News* 6: 45, 1965; 13: 26, 29, 1972; 16: 20, 1975
*Metabolism, Clinical and Experimental* 28: 4 (Supl. 1), 1979
*Orthopedics* 3: 11, 1980
*Pediatrics in Review* 1: 2-6, 1979, 1: 7-10, 1980; 2: 1-6, 1980, 2: 7-10, 1981
*Plasmid* 3: 1-4, 1980
*Progress in Cardiovascular Diseases* 12: 5-6, 1970
*Science and Psychoanalysis* 14: 1969
*Sciquest* 52: 1-3, 1979
*Social Service Delivery Systems* Vols. 1-3, 197-
*Substance and Alcohol Actions/Misuse* 1: 1, 1980

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